

List of Acronyms, Abbreviations, and Parameters

Acronyms and Abbreviations

Abbreviation	Definition
*	P<.05
**	P<.01
***	P<.001
A	Amplitude
AA (20:4 n-6)	Arachidonic acid
Ac	Activation parameter
AC	Intra-atrial conduction time
AHRQ	Agency for Healthcare Research and Quality
AI	Adequate Intake
ALA (18:3 n-3)	Alpha-linolenic acid
Amb	Ambient
AP or APR	Action potential rate
APA	Action-potential amplitude
APD ₄₀	Action-potential duration at 40% depolarization
APD ₈₀	Action-potential duration at 80% depolarization
Apo	Apoprotein
APS	Active pump sites
APT	Action potential threshold
AR	Arrhythmia
ARAr	Areas at risk of arrhythmias
ARP	Functional refractory period of the atrium
AS	Arrhythmia scores
ASC	Asynchronous contraction
ATP	Adenosine triphosphate
ATPase	Adenosine triphosphatase
AVC	Atrioventricular conductance time
AVRP	Functional refractory period of atrio-ventricular conducting system
B	Basal
B	Blocked (when used with arrhythmias)
BAY	Bay K8644
BEP	Basal electromechanical parameters
B _{max}	High and low affinity binding sites
BMI	Body mass index
BP	Blood pressure
BSA	Bovine serum albumin
BT	Benzothiazepine calcium current-voltage ($I_{Ca}-V$) curves
BUME	Bumetamide
BW	Lipoxygenase inhibitor
C ₂₀	Contraction coupling delay (ms)
Ca	Calcium
Ca ²⁺	Calcium
CAB	Commonwealth Agricultural Bureau
cAMP	Cyclic adenosine monophosphate
CAFF	Caffeine
CaFlu	Calcium intermittent fluctuations
CCTR	Cochrane Central Register of Controlled Trials
CD ₂₀	Contraction duration at 20% relaxation (ms)
CD ₈₀	Contraction duration at 80% relaxation (ms)
CICR	Calcium induced contractile response
CL	Cell Length

Abbreviation	Definition
CLO	Cod liver Oil
+Cmax	Cell shortening velocity
-C _{max}	Relaxation time
CO	Corn Oil
Contra	Contractility or beating rate (beats/min)
COX	Cyclo-oxygenase
CP	contractile parameters
CSF II	Continuing Food Survey of Intakes by Individuals 1994-1998
CRP	C reactive protein
Ctrl	Control
CVD	Cardiovascular disease
Cys	Cytosolic
D	Dietary supplement company (in evidence table)
D	Duration (in summary table)
D	Decreased (when in footnote of table)
dBcAMP	Dibutyryl cyclic adenosine monophosphate
DBHQ	2,4-Di-tert-butylhydroquinone
DCL	Diastolic cell length
DD	Dose dependent
Dep APT	Depolarizing action potential threshold
df/dt	Maximum rate of rise of contraction
-df/dt	Maximum rate of rise of relaxation
DHA (22:6 n-3)	Decosahexaenoic acid
DHAE	DHA esters
DHPA	3H-dihydroalprenolol
Dia	Diastolic
DIL	Diltiazem
DL	Diastolic length
DM	Diabetes mellitus
DPA (22:5 n-3 or n-6)	Docosapentaenoic acid
DRI	Dietary References Intakes
DTS	Dense tubular system
DXR	Doxorubicin
EA	Electrical automaticity/excitability
EAR	Estimated Average Requirement
ECG	Electrocardiogram
EC50	That concentration needed to produce a 50% effect
e.e.	ethylated
EFA	Essential fatty acid
endo	endocardial
EPA (20:5 n-3)	Eicosapentaenoic acid
EPA-e	EPA esters
EPC	Evidence-based Practice Center
Epi	epicardial
ET-1	Endothelin-1
ETYA	Eicosatetraynoic acid
F	Frequency
FAC	Fatty acid composition
FDA	Food and Drug Administration
FO	Fish Oil
FOC	Force of contraction
FRGS	Free radical generating system

Abbreviation	Definition
FVR	Force-velocity relationship (Vmax, initial muscle length, maximum extent of twitch muscle shortening, time to peak shortening, positive peak of the normalized force derivative of the fully isometric twitch, total isometric force normalized per cross-sectional area, time to peak force)
G	Government
GLA (18:3 n-6)	Gamma linolenic acid
HC	High Cholesterol
HDL	High density lipoprotein
HF	High fat
HTN	Hypertension
Hy RMP	Hyperpolarizing
I	Industry
I	Increased (when in footnote of table)
$I_{Ca,L}$	Voltage dependent L-type Ca^{2+} current/inward Ca^{2+} current/ Ca^{2+} sparks
I_{Ca-V}	Calcium current-voltage
ICH	Ion channel
$I_{Cl,Ca}$	Caffeine and Neurokinin A elicited Ca^{2+} dependent Cl^- current
ICU	Ion currents
IC50	That concentration that produces a 50% reduction in the effect
I_K	Delayed rectifier K^+ current
I_{K1}	Inward rectifier K^+ current or tail current
I_{KUR}	Ultra rapid potassium current
IL	Interleukin
InAc	Inactivation parameter
In	Ionomycin
I_{Na}	Sodium current
INDO	Indomethacin
InsP	Inositol phosphate
IOM	Institute of Medicine
IP	Inotropic Parameters
IPIM	Ion pumps and ion movement
IS	Infarct size
ISO	Isoproterenol:
I_{sus}	Outward K^+ current
I_{to}	Transient K^+ outward current or initial outward current
K^+	Potassium
KCl	Potassium chloride
Kd	Affinity
KRB	Krebs Ringer bicarbonate
L	Membrane leakiness
L	Resting cell length (inotropic measure in contractile parameter table)
LA (18:2 n-6)	Linoleic acid
LC PUFA	Long-chain polyunsaturated fatty acid
LD	Lactate dehydrogenase
LDL	Low density lipoprotein
LIN	Linseed Oil
LP	Lipoprotein
LPC	lysophosphatidylcholine
LPS	lipopolysaccharide
LT	Leukotriene
LVH	Left ventricular hypertrophy
Mag	Magnitude
MAP	Monophasic action potential duration
MDP	Maximal diastolic potential

Abbreviation	Definition
m.e.	Methyl ester
MenO	Menhaden oil
MEX	Mexiletine
Mg	Magnesium ATPase
MI	Myocardial infarction
MO	Mitochondrial oligomycin sensitive ATPase
MP	Metabolites and pathways
MUFA	Monounsaturated fatty acid
N	Non-government / non-profit
Na	Sodium
Na ⁺	Sodium
NA	Not available
Nad	Sodium dependent
Na/K	Sodium potassium
NB	No blocks
NC	No change
Na/H exch	Sodium/hydrogen exchanger
NCHS	National Center for Health Statistics
ND	No data
NDGA	Nordihydroguaiaretic acid
NEMC	New England Medical Center
NEU	Neurokinin
NHANES III	National Health and Nutrition Examination 1988-1994
NIH	National Institutes of Health
NIT	Nitrendipine
NorEpi	Norepinephrine
NP	Not for Profit
O	Other (in evidence table)
O2	Oxygen
ODS	Office of Dietary Supplements
OO	Olive Oil
OS	overshoot potential
OUA	Ouabain
OvAI	ovalbumin
P	Prevented (when in footnote of table)
PAA	Phenylalkylamine
PAI	Plasminogen activator inhibitor
Pas	Passive
PCL	Percent cell length
PE/A	Pump efficiency or affinity for ATP
PG	Prostaglandin
PHE	Phenylephrine
PIR	Poverty Income Ratio
PLC-b	Receptor mediated phospholipase C
PPAR	Peroxisome proliferator activated receptor
PRP	Post rest potentiation
PTC	Palmitoylcarnitine
PUFA	Polyunsaturated fatty acid
QRS	Ventricular conductance time
Qt	Electrocardiogram interval
RCL	Resting cell length
RDA	Recommended Dietary Allowances
RDT	Resting/developed tension
ReOxy	Reoxygenation

Abbreviation	Definition
RO	Rapeseed oil (canola oil)
RP	Resting potential
RRP	Relative refractory period
RSE	Relative standard error
SAF	Safflower Oil
SC	Spontaneous contraction
SCL	Systolic cell length
SC-RAND	Southern California-RAND
SD	Standard deviation
SEM	Standard error of the mean
SF	Saturated fat
SFA	Saturated fatty acid
SL	Sarcolemma
SM3	Synthesized medium for omega-3 group
SM6	Synthesized medium for omega-6 group
SR	Sarcoplasmic reticulum
SREBP	Sterol regulatory element binding protein
STA or STD	Standard
SUP	Supplement
Sys	Systolic
T	Terminated (when in footnote of table)
TA	Twitch amplitude
TC	Total cholesterol
tC ₂₀	Contracting coupling delay
TD	Time dependent
TEP	Technical Expert Panel
Tg	Triglycerides
TIC	Time constant of I _{to} inactivation
TIM	Timolol
TNF	Tumor necrosis factor
TPA	Tissue plasminogen activator
TS	Twitch size
TSR	Time in sinus rhythm
TT FA	Total Fatty Acids
Tx	Thromboxane
UO	University of Ottawa
USDA	United States Department of Agriculture
VCAM	Vascular cell adhesion molecule
VEB	Ventricular ectopic beats
VEN	Ventricular
VER	Verapamil
VERP	Left ventricular effective refractory period
VF	Ventricular fibrillation
VFT	Ventricular fibrillation threshold
VLDL	Very low density lipoprotein
VLN-3FA	Very long chain n-3 fatty acid
V _{max}	Maximum rate of depolarization
VP	Vasopressin
VPB	Ventricular premature beat
VS	Velocity of shortening
VSRM	Voltage-sensitive release mechanism
VT	Ventricular tachycardia
W/W	Weight-by-weight

Parameters

Arrhythmia-related parameters used in this report

Category	Sub Categories
Ion Channels, Pumps and Currents	<ul style="list-style-type: none"> ● Basal Electromechanical Parameters <ul style="list-style-type: none"> - Resting potential (RP) - Action Potential Threshold (APT) - Action Potential Amplitude (APA) - Action Potential Duration at 40% repolarization (ADP₄₀) - Action Potential Duration at 80% repolarization (ADP₈₀) - Maximum rate of depolarization (V_{max}) - Maximum Diastolic Potential (MDP) - Overshoot potential or overshoot plateau potential (OS) ● Ion Currents <ul style="list-style-type: none"> - Initial fast Na⁺ current (I_{Na}) - Initial outward K⁺ current/Transient K⁺ outward current (I_{lo}) - Voltage dependent L-type Ca²⁺ current/Inward Ca²⁺ current/Ca²⁺ sparks ($I_{Ca,L}$) - Delayed rectifier K⁺ current (I_K) - Inward rectifier K⁺ current (I_K) or tail current - Caffeine and Neurokinin A elicited Ca²⁺ dependent Cl⁻ current ($I_{Cl,Ca}$) - Outward K⁺ current (I_{sus}) - Receptor mediated Ca²⁺ permeable non selective cation currents (?) - Kv4.3 current (?) ● Ion Channels <ul style="list-style-type: none"> - Slow Ca²⁺ channel and L-type Ca²⁺ channel - Delayed rectifier K⁺ channel - Kv1.1, Kv2.1and Kv1.5 channels - Na⁺-K⁺-2Cl⁻ cotransporter ● Ion Pumps and Ion Movement <ul style="list-style-type: none"> - Sodium Pump or Na, K-ATPase - Ca²⁺ influx or uptake or rise or cytosolic free Ca²⁺ - Na⁺ dependent Ca²⁺ influx - Na⁺/H⁺ uptake - Passive Ca²⁺ efflux - Na⁺ uptake - Sarcoplasmic reticulum (SR) Ca²⁺ content or release
Contractile Parameters	<ul style="list-style-type: none"> ● Inotropic parameters (IP) <ul style="list-style-type: none"> - Frequency (f) <ul style="list-style-type: none"> - Amplitude (A) - Duration (D) - Resting cell length (L) ● Arrhythmia (AR) <ul style="list-style-type: none"> ● Action Potential Rate, or beating rate or frequency, or contraction rate (APR) ● Contraction coupling delay (tC_{20}) ● Contraction duration at 20% relaxation (CD_{20}) ● Contraction duration at 80% relaxation (CD_{80}) ● Relaxation time (-C_{max}) ● Cell shortening velocity (+C_{max})